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Substitute for form 1448A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 12

Complete if Known

Application Number	10/608,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	AA	US- 5,571,902	11-1996	Ravikumar et al.	
	AB	US- 5,834,195	11-1998	Benkovic et al.	
	AC	US- 6,221,601	04-2001	Koster et al.	
	AD	US- 5,716,825	02-1998	Hancock et al.	
	AE	US- 6,329,146	12-2001	Crooke et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	AF	WO 89/12694	12-28-1989	GENOMYX INC		
	AG	WO 97/33000	09-12-1997	GENTRACE SYS.		
	AH	WO 99/58947	11-18-1999	HOFSTADLER		

Examiner Signature		Date Considered	11/9/2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
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(Use as many sheets as necessary)

Sheet 2 of 12

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Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

NON PATENT LITERATURE DOCUMENTS

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	AI	Dunayevsky, Y.M., et al., "Simultaneous measurement of nineteen binding constants of peptides to vancomycin using affinity capillary electrophoresis-mass spectrometry," J. Med. Chem., 1998, 41, 1201-1204.	<input checked="" type="checkbox"/>
	AJ	Griffey, R.H., et al., "Determinants of aninoglycoside-binding specificity for rRNA by using mass spectrometry," Proc. Natl. Acad. Sci. USA, 1999, 96, 10129-10133.	<input checked="" type="checkbox"/>
	AK	Kempen, E.C., et al., "A method for the determination of binding constants by electrospray ionization mass spectrometry," Anal. Chem., 2000, 72, 5411-5416.	<input checked="" type="checkbox"/>
	AL	Loo, J.A., "Studying noncovalent protein complexes by electrospray ionization mass spectrometry," Mass Spectrometry Reviews, 1997, 16, 1-23.	<input checked="" type="checkbox"/>
	AM	Cheng, X. et al., "Electrospray Ionization with High Performance Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for the Study of Noncovalent Biomolecular Complexes," Techniques in Protein Chem. VII, 1996, 13-22.	<input checked="" type="checkbox"/>
	AN	Przybylski, M. et al., "Mass spectrometric approaches to molecular characterization of protein-nucleic acid interactions," Toxicology Letts., 1995, 82/83, 567-575.	<input checked="" type="checkbox"/>
	AO	Sannes-Lowery, K.A. et al., "HIV-1 Tat Peptide Binding to TAR RNA by Electrospray Ionization Mass Spectrometry," Anal. Chem., 1997, 69, 5130-5135.	<input checked="" type="checkbox"/>
	AP	Koster, H. et al., "A Strategy for rapid and efficient DNA sequencing by mass spectrometry," Nature Biotechnology, 1996, 14, 1123-1128.	<input checked="" type="checkbox"/>
	AQ	Amster, "Fourier Transform Mass Spectrometry," J. Mass Spectrom., 1996, 31, 1325-1337.	<input checked="" type="checkbox"/>
	AR	Baca et al., "Direct Observation of a Ternary Complex between the Dimeric Enzyme HIV-1 Protease and a Substrate-Based Inhibitor," J. Am. Chem. Soc., 1992, 114, 3992-3993.	<input checked="" type="checkbox"/>
	AS	Baczynskyj et al., "Application of Thermally Assisted Electrospray Ionization Mass Spectrometry for Detection of Noncovalent Complexes of Bovine Serum Albumin with Growth Hormone Releasing Factor and Other Biologically Active Peptides", Rapid Commun. Mass Spectrom., 1994, 8, 280-286.	<input checked="" type="checkbox"/>

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Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

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<i>u</i>	AT	Bayer et al., "Analysis of Double-Stranded Oligonucleotides by Electrospray Mass Spectrometry", Anal. Chem., 1994, 66, 3858-3863.	<input checked="" type="checkbox"/>
	AU	Berson et al., "General Principles of Radioimmunoassay", Clin. Chim. Acta, 1968, 22, 51-60.	<input checked="" type="checkbox"/>
	AV	Bruce et al., "Bio-Affinity Characterization Mass Spectrometry", Rapid Commun. Mass Spectrom., 1995, 9, 644-650.	<input checked="" type="checkbox"/>
	AW	Bruins et al., "Ion Spray Interface for Combined Liquid Chromatography/Atmospheric Pressure Ionization Mass Spectrometry", Anal. Chem., 1987, 59, 2642-2646.	<input checked="" type="checkbox"/>
	AX	Busman et al., "Observation of Large Multimers in the Electrospray Ionization Mass Spectrometry of Peptides", Rapid Commun. Mass Spectrom., 1994, 8, 211-216.	<input checked="" type="checkbox"/>
	AY	Cai et al., "Capillary electrophoresis--mass spectrometry", J. Chromatogr., 1995, 703, 667-692.	<input checked="" type="checkbox"/>
	AZ	Cheng et al., "Using Electrospray Ionization FTICR Mass Spectrometry to Study Competitive Binding of Inhibitors to Carbonic Anhydrase", J. Am. Chem. Soc., 1995, 117, 8859-8860.	<input checked="" type="checkbox"/>
	BA	Chu et al., "Affinity Capillary Electrophoresis", Acc. Chem. Res., 1995, 28, 461-468.	<input checked="" type="checkbox"/>
	BB	Chu et al., "Using Affinity Capillary Electrophoresis to Identify the Peptide in a Peptide Library that Binds Most Tightly to Vancomycin", J. Org. Chem., 1993, 58, 648-652.	<input checked="" type="checkbox"/>
	BC	Chu et al., "Affinity Capillary Electrophoresis--Mass Spectrometry for Screening Combinatorial Libraries", J. Am. Chem. Soc., 1996, 118, 7827-7835.	<input checked="" type="checkbox"/>
<i>✓</i>	BD	Cohen et al., "Probing the solution structure of the DNA-binding protein Max by a combination of proteolysis and mass spectrometry", Protein Sci., 1995, 4, 1088-1099.	<input checked="" type="checkbox"/>

Examiner Signature	<i>u</i>	Date Considered	11/9/2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 4 of 12

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Application Number	10/608,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

NON PATENT LITERATURE DOCUMENTS

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<i>u</i>	BE	Doctycz et al., "Accumulation and Storage of Ionized Duplex DNA Molecules in a Quadrupole Ion Trap", Anal. Chem., 1994, 66, 3416-3422.	—
	BF	Dunayevskly et al., "Mass Spectrometric Identification of Ligands Selected from Combinatorial Libraries Using Gel Filtration", Rapid Commun. Mass Spectrom., 1997, 11, 1178-1184.	—
	BG	Ecker et al., "Combinatorial Drug Discovery: Which Methods Will Produce the Greatest Value", Biotech., 1995, 13, 351-360.	—
	BH	Erickson et al., "Macromolecular X-Ray Crystallography and NMR as Tools for Structure-based Drug Design", Ann. Rep. Med. Chem., 1992, vol. 27, Ch. 29, 271-289.	—
	BI	Feng et al., "Analysis of Antibodies and Other Large Glycoproteins in the Mass Range of 150 000-200 000 Da by Electrospray Ionization Mass Spectrometry", Anal. Chem., 1992, 64, 2090-2095.	—
	BJ	Gale et al., "Observation of Duplex DNA-Drug Noncovalent Complexes by Electrospray Ionization Mass Spectrometry", J. Am. Chem. Soc., 1994, 116, 6027-6028.	—
	BK	Ganem et al., "Detecting Noncovalent Complexes of Biological Macromolecules: New Applications of Ion-Spray Mass Spectrometry", ChemTracts-Org. Chem., 1993, 6, 1-22.	—
	BL	Ganem et al., "Detection of Oligonucleotide Duplex Forms by Ion-Spray Mass Spectrometry", Tetra. Lett., 1993, 34(9), 1445-1448.	—
	BM	Gao et al., "Screening Derivatized Peptide Libraries for Tight Binding Inhibitors to Carbonic Anhydrase II by Electrospray Ionization-Mass Spectrometry", J. Med. Chem., 1996, 39, 1949-1955.	—
	BN	Glover et al., "Sequencing of Oligonucleotides Using High Performance Liquid Chromatography and Electrospray Mass Spectrometry", Rapid Commun. Mass Spectrom., 1995, 9, 897-901.	—
<i>u</i>	BO	Goodlett et al., "Direct Observation of a DNA Quadruplex by Electrospray Ionization Mass Spectrometry", Biol. Mass Spectrom., 1993, 22, 181-183.	—

Examiner
Signature*u*Date
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Sheet 5 of 12

Complete if Known

Application Number	10/808,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

NON PATENT LITERATURE DOCUMENTS

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	BP	Greig et al., "Measurement of Macromolecular Binding Using Electrospray Mass Spectrometry. Determination of Dissociation Constants for Oligonucleotide-Serum Albumin Complexes", J. Am. Chem. Soc., 1995, 117, 10765-10766.	<input checked="" type="checkbox"/>
	BQ	Henion et al., "Mass Spectrometric Investigations of Drug-Receptor Interactions", Ther. Drug Monitoring, 1993, 15(6), 563-569.	<input checked="" type="checkbox"/>
	BR	Hillenkamp et al., "Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Bipolymers", Anal. Chem., 1991, 63(24), 1193A-1202A.	<input checked="" type="checkbox"/>
	BS	Hu et al., "Determining Calcium-binding Stoichiometry and Cooperativity of Parvalbumin and Calmodulin by Mass Spectrometry", J. Mass Spectrom., 1995, 30, 1076-1079.	<input checked="" type="checkbox"/>
	BT	Huang et al., "Packed-Capillary Liquid Chromatography/Ion-Spray Tandem Mass Spectrometry Determination of Biomolecules", Anal. Chem., 1991, 63, 732-739.	<input checked="" type="checkbox"/>
	BU	Huang et al., "LC/MS and LC/MS/MS Determination of Protein Tryptic Digests", J. Am. Soc. Mass Spectrom., 1990, 1(2), 158-165.	<input checked="" type="checkbox"/>
	BV	Jefson, "Applications of NMR Spectroscopy to Protein Structure Determination", Ann. Rep. Med. Chem., 1998, vol. 23, Ch. 28, 275-283.	<input checked="" type="checkbox"/>
	BW	Jensen et al., "Mass Spectrometric Characterization of UV-Crosslinked Protein-Nucleic Acid Complexes", 42nd ASMS Conf. On Mass Spectrom. and Allied Topics, 1994, 923.	<input checked="" type="checkbox"/>
	BX	Jensen et al., "Direct Observation of UV-crosslinked Protein-Nucleic Acid Complexes by Matrix-assisted Laser Desorption Ionization Mass Spectrometry", Rapid Commun. Mass Spectrom., 1993, 7, 496-501.	<input checked="" type="checkbox"/>
	BY	Jonsson et al., "Real-Time Biospecific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology", Biotech., 1991, 11(5), 620-627.	<input checked="" type="checkbox"/>
	BZ	Karlsson et al., "Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system", J. Immunol. Methods, 1991, 145, 229-240.	<input checked="" type="checkbox"/>

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Sheet 6 of 12

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First Named Inventor	Stanley T. Crooke
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	CA	Kassel et al., "Direct Coupling of an Automated 2-Dimensional Microcolumn Affinity Chromatography-Capillary HPLC System with Mass Spectrometry for Biomolecular Analysis", in Techniques in Protein Chemistry, J. Crabb (ed.), Academic Press, San Diego, 1995, Ch. VI, 39-46.	<input checked="" type="checkbox"/>
	CB	Knight et al., "Electrospray Ionization Mass Spectrometry as a Mechanistic Tool: Mass of Human Leucocyte Elastase and a .beta.-Lactam-Derived E-1 Complex", Biochem., 1993, 32, 2031-2035.	<input checked="" type="checkbox"/>
	CC	Lane et al., "SPARC Is a Source of Copper-binding Peptides that Stimulate Angiogenesis", J. Cell Biol., 1994, 125(4), 929-943.	<input checked="" type="checkbox"/>
	CD	Li et al., "Mass Spectrometric Studies on Noncovalent Dimers of Leucine Zipper Peptides", J. Am. Chem. Soc., 1993, 115, 8409-8413.	<input checked="" type="checkbox"/>
	CE	Light-Wahl et al., "Observation of a Small Oligonucleotide Duplex by Electrospray Ionization Mass Spectrometry", J. Am. Chem. Soc., 1993, 115, 803-804.	<input checked="" type="checkbox"/>
	CF	Light-Wahl et al., "Observation of the Noncovalent Quaternary Associations of Proteins by Electrospray Ionization Mass Spectrometry", J. Am. Chem. Soc., 1994, 116, 5271-5278.	<input checked="" type="checkbox"/>
	CG	Light-Wahl et al., "Collisionally Activated Dissociation and Tandem Mass Spectrometry of Intact Hemoglobin .beta.-Chain Variant Proteins with Electrospray Ionization", Biol. Mass Spectrom., 1993, 22, 112-120.	<input checked="" type="checkbox"/>
	CH	Lim et al., "Recognition of Cell-wall Peptide Ligands by Vancomycin Group Antibiotics: Studies Using Ion Spray Mass Spectrometry", J. Mass Spectrom., 1995, 30, 708-714.	<input checked="" type="checkbox"/>
	CI	Little et al., "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry", J. Am. Chem. Soc., 1994, 116, 4893-4897.	<input checked="" type="checkbox"/>
	CJ	Little et al., "Sequencing 50-mer DNAs Using Electrospray Tandem Mass Spectrometry and Complementary Fragmentation Methods", J. Am. Chem. Soc., 1995, 117, 6783-6784.	<input checked="" type="checkbox"/>
	CK	Little et al., "Infrared Multiphoton Dissociation of Large Multiply Charged Ions for Biomolecule Sequencing", Anal. Chem., 1994, 66, 2809-2815.	<input checked="" type="checkbox"/>

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Sheet 7 of 12

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<i>u</i>	CL	Little et al., "Verification of 50-to 100-mer DNA and RNA sequences with high-resolution mass spectrometry", Proc. Natl. Acad. Sci. USA, 1995, 92, 2318-2322.	✓
	CM	Loo, "Bioanalytical Mass Spectrometry: Many Flavors to Choose", Bioconjugate Chem., 1995, 6, 644-665.	✓
	CN	Loo, "Observation of Large Subunit Protein Complexes by Electrospray Ionization Mass Spectrometry", J. Mass Spectrom., 1995, 30, 180-183.	✓
	CO	Loo et al., "Use of Electrospray Ionization Mass Spectrometry to Probe Antisense Peptide Interactions", Biol. Mass Spectrom., 1994, 23, 6-12.	✓
	CP	Loo et al., "Interactions of Angiotensin Peptides and Zinc Metal Ions Probed by Electrospray Ionization Mass Spectrometry", J. Am. Soc. Mass Spectrom., 1994, 5(11), 959-965.	✓
	CQ	Marshall et al., "Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: The Teenage Years", Anal. Chem., 1991, 63(4), A215-A229.	✓
	CR	McLuckey et al., "Tandem Mass Spectrometry of Small, Multiply Charged Oligonucleotides", J. Am. Soc. Mass Spectrom., 1992, 3(1), 60-70.	✓
	CS	McLuckey et al., "Decompositions of Multiply Charged Oligonucleotide Anions", J. Am. Chem. Soc., 1993, 115, 12085-12095.	✓
	CT	Nelson et al., "Mass Determination of Human Immunoglobulin IgM Using Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry", Rapid Commun. Mass Spectrom., 1994, 8, 627-631.	✓
	CU	Ni et al., "Interpretation of Oligonucleotide Mass Spectra for Determination of Sequence Using Electrospray Ionization and Tandem Mass Spectrometry", Anal. Chem., 1996, 68, 1989-1999.	✓
<i>u</i>	CV	Nordhoff et al., "Direct Mass Spectrometric Sequencing of Low-picomole Amounts of Oligodeoxynucleotides with up to 21 Bases by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", J. Mass Spectrom., 1995, 30, 99-112.	✓

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 8 of 12

Complete if Known

Application Number	10/808,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CW	Pieles et al., "Matrix-assisted laser desorption ionization time-of-flight mass spectrometry: a powerful tool for the mass and sequence analysis of natural and modified oligonucleotides", Nucl. Acid Res., 1993, 21(14), 3191-3196.	✓
	CX	Rossomando et al., "Identification of Tyr-185 as the site of tyrosine autophosphorylation of recombinant mitogen-activated protein kinase p42.sup.mapk ", Proc. Natl. Acad. Sci USA, 1992, 89, 5779-5783.	✓
	CY	Shaler et al., "Analysis of Enzymatic DNA Sequencing Reactions by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry", Rapid Commun. Mass Spectrom., 1995, 9, 942-947.	✓
	CZ	Smith et al., "The Observation of Non-covalent Interactions in Solution by Electrospray Ionization Mass Spectrometry: Promise, Pitfalls and Prognosis", J. Biol. Mass Spectrom., 1993, 22, 493-501.	✓
	DA	Smith et al., "New Developments in Biochemical Mass Spectrometry: Electrospray Ionization", Anal. Chem., 1990, 62, 882-899.	✓
	DB	Sternberg et al., "Display of peptides and proteins on the surface of bacteriophage .gamma.", Proc. Natl. Acad. Sci. USA, 1995, 92, 1609-1613.	✓
	DC	Udenfriend et al., "Scintillation Proximity Assay: A Sensitive and Continuous Isotopic Method for Monitoring Ligand/Receptor and Antigen/Antibody Interactions", Anal. Biochem., 1987, 161, 494-500.	✓
	DD	Winger et al., "High-Resolution Accurate Mass Measurements of Biomolecules Using a New Electrospray Ionization Ion Cyclotron Resonance Mass Spectrometer", J. Am. Soc. Mass Spectrom., 1993, 4(7), 566-577.	✓
	DE	Witkowska et al., "Mass Spectrometric Analysis of a Native Zinc-Finger Structure: The Glucocorticoid Receptor DNA Binding Domain", J. Am. Chem. Soc., 1995, 117(12), 3319-3324.	✓
	DF	Cheng et al., "Electrospray Ionization with High Performance Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for the Study of Noncovalent Biomolecular Complexes", in Techniques in Protein Chemistry, 1996, vol. 7, 13-22.	✓

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SignatureDate
Considered

11/9/2006

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Sheet 9 of 12

Complete if Known

Application Number	10/608,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DG	Egli, Martin et al., "Crystal structure of an Okazaki fragment at 2-A resolution," Proc. Natl. Acad. Sci. vol. 89, pp. 534-538. (Jan. 1992).	<input checked="" type="checkbox"/>
	DH	Anderegg et al., "Mass Spectrometric Characterization of a Protein-Ligand Interaction", J. Am. Chem. Soc., 1995, 117, 1374-1377.	<input checked="" type="checkbox"/>
	DI	Berendsen, "A glimpse of the Holy Grail?" Science (1998) 282:642-643.	<input checked="" type="checkbox"/>
	DJ	Biemann, "Mass Spectrometry of Peptides and Proteins", Ann. Rev. Biochem., 1992, 61, 977-1010.	<input checked="" type="checkbox"/>
	DK	Bowers et al., "Mass Spectrometry: Recent Advances and Future Directions", J. Phys. Chem., 1996, 100, 12897-12910.	<input checked="" type="checkbox"/>
	DL	Burlingame et al., "Mass Spectrometry", J. Anal. Chem., 1998, 70, 647R-716R.	<input checked="" type="checkbox"/>
	DM	Bryan, "Mechanisms of Action of Aminoglycoside Antibiotics", in New Dimensions in Antimicrobial Therapy, Root, R.K. et al. (eds.), Churchill Livingstone, New York, 1984, vol. 1, Ch. 2, 17-36.	<input checked="" type="checkbox"/>
	DN	Cheng et al., "Direct measurement of oligonucleotide binding stoichiometry of gene V protein by mass spectrometry", Proc. Natl. Acad. Sci USA, 1996, 93, 7022-7027.	<input checked="" type="checkbox"/>
	DO	Crain et al., "Applications of mass spectrometry to the characterization of oligonucleotides and nucleic acids", Curr. Opin. Biotechnol., 1998, 9, 25-34.	<input checked="" type="checkbox"/>
	DP	De Stasio et al., "Mutations in 16S ribosomal RNA disrupt antibiotic-RNA interactions", EMBO J., 1989, 8, 1213-1216.	<input checked="" type="checkbox"/>

Examiner Signature		Date Considered	11/9/2006
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Sheet 10 of 12

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Application Number	10/608,354
Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

NON PATENT LITERATURE DOCUMENTS

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<i>u</i>	DQ	Fourmy et al., "Structure of the A Site of Escherichia coli 16S Ribosomal RNA Complexed with an Aminoglycoside Antibiotic", Science, 1996, 2/4, 1367-1371.	✓
	DR	Fourmy et al., "Paromomycin Binding Induces a Local Conformational Change in the A-site of 16 S rRNA", J. Mol. Biol., 1998, 277, 333-345.	✓
	DS	Gale et al., "Characterization of Noncovalent Complexes Formed between Minor Groove Binding Molecules and Duplex DNA by Electrospray Ionization-Mass Spectrometry", J. Am. Soc. Mass Spectrometry, 1995, 6, 1154-1164.	✓
	DT	Ganguly et al., "Studies of the Ras-GDP and Ras-GTP Noncovalent Complexes by Electrospray Mass Spectrometry", Tetrahedron, 1993, 49(36), 7985-7996.	✓
	DU	Griffey et al., "Detection of base pair mismatches in duplex DNA and RNA oligonucleotides using electrospray mass spectrometry", Proc. SPIE-Int. Soc. Opt. Eng., 1997, 2985, 82-86.	✓
	DV	Jorgensen et al., "Direct Determination of Solution Binding Constants for Noncovalent Complexes between Bacterial Cell Wall Peptide Analogues and Vancomycin Group Antibiotics by Electrospray Ionization Mass Spectrometry", Anal. Chem., 1998, 70, 4427-4432.	✓
	DW	Loo, "Study Noncovalent Protein Complexes by Electrospray Ionization Mass Spectrometry", Mass Spectrometry Reviews, 1997, 16, 1-23.	✓
	DX	Marshall et al., "Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Primer", Mass Spectrom. Rev., 1998, 17, 1-35.	✓
	DY	Miyaguchi et al., "An antibiotic motif of an RNA fragment derived from the A-site-related region of Escherichia coli 16A rRNA", Nucl. Acids Res., 1996, 24(19), 3700-3706.	✓
✓	DZ	Recht et al., "RNA Sequence Determinants for Aminoglycoside Binding to an A-site rRNA Model Oligonucleotide", J. Mol. Biol., 1996, 262, 421-436.	✓

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Signature*Stacy Lu*Date
Considered*11/9/2006*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/608,354
		Filing Date	June 27, 2003
		First Named Inventor	Stanley T. Crooke
		Art Unit	To Be Determined
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		Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)
Sheet	11	of	12

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<i>u</i>	EA	Smith et al., "New mass spectrometric methods for the study of noncovalent associations of biopolymers", Chem. Soc. Rev., 1997, 26, 191-202.	✓
	EB	Wang et al., "Specificity of Aminoglycoside Binding to RNA Constructs Derived from the 16S rRNA Decoding Region and the HIV-RRE Activator Region", Biochem., 1997, 36, 768-779.	✓
	EC	Wincott et al., "Synthesis, deprotection, analysis and purification of RNA and ribozymes", Nucl. Acids Res., 1995, 23(14), 2677-2684.	✓
	ED	Wong et al., "Specificity of aminoglycoside antibiotics for the A-site of the decoding region of ribosomal RNA", Chem. Biol., 1998, 5(7), 397-406.	✓
	EE	Fitzgerald et al., "Probing the oligomeric structure of an enzyme by electrospray ionization time-of-flight mass spectrometry", Proc. Natl. Acad. Sci. USA, 1996, 93, 6851-6856.	✓
	EF	Ens et al., (eds.), <i>New Methods for the Study of Biomolecular Complexes</i> , (Proceedings of the NATO Advanced Research Workshop held in Alberta, Canada on June 16-20, 1996) Vol. 510 (1998), Kluwer, Dordrecht, Neth., 1-354.	✓
	EG	Adams et al., in <i>Automated DNA Sequencing and Analysis</i> , Academic Press, San Diego (1994).	✓
	EH	Brown, in <i>DNA Sequencing</i> , IRL Oxford University Press, Oxford (1994).	✓
	EI	Chard, in <i>An Introduction to Radioimmunoassay and Related Techniques</i> , Elsevier Press, Amsterdam/New York (1982).	✓
✓	EJ	Cole, in <i>Electrospray Ionization Mass Spectrometry: Fundamentals, Instrumentation</i> , Wiley New York (1997).	✓

Examiner Signature	<i>u</i>	Date Considered	11/9/2006
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Sheet 12 of 12

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Filing Date	June 27, 2003
First Named Inventor	Stanley T. Crooke
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	IBIS0038-103 (MSIBIS-0002US.C2)

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*	EK	Copeland, in <i>Methods of Protein Analysis: A Practical Guide to Laboratory Protocols</i> , Chapman and Hall, New York (1994)	<input checked="" type="checkbox"/>
*	EL	Creighton, in <i>Protein Folding</i> W.H. Freeman and Co. (1992).	<input checked="" type="checkbox"/>
*	EM	Findlay et al., in <i>Protein Sequencing: A Practical Approach</i> , IRL Press, Oxford (1989).	<input checked="" type="checkbox"/>
*	EN	Kemeny et al., in <i>ELISA and Other Solid Phase Immunoassays: Theoretical and Practical Aspects</i> , Wiley, New York (1988).	<input checked="" type="checkbox"/>
*	EO	Loo et al., in <i>Proc. 43rd ASMS Conf. On Mass Spectrom. and Allied Topics</i> (1995).	<input checked="" type="checkbox"/>
*	EP	Smith, in <i>Protein Sequencing Protocols</i> , Humana Press, Totowa, NY (1997).	<input checked="" type="checkbox"/>
*	EQ	Snyder, in <i>Biochemical and Biotechnological Applications of Electrospray Ionization Mas.</i> , American Chemical Society, Washington, D.C. (1996).	<input checked="" type="checkbox"/>

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